

Receiving Report

Date: 12/2/8

Batch No: n/20603

Supplier: 717555 h

Dart P/O: 16088

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection 12/02/09 N/A ☐
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M 304	BA-76V X2-500	36	0	0	36	
M 656	BA-76V	48	0	0	48	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 12/2/8
 Date [Signature]
 Received/Costing [Signature]
 Initial [Signature]

Location

Purchase Order Receipt Listing

Wednesday, February 08, 2012 10:38:02 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO16088 Receipt Dates from 2/8/2012 to 2/8/2012 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO16088	1		M6061T6B0.750X06. f 000		2/10/2012	2/8/2012	12.0000	\$10.47	0.0000	0	\$125.65
CAD	No		6061T6 BAR .750 X f 6.00		12.0000	DES102		\$125.65	0.0000	0	
			120603								
	2		M6061T6B00750X00 f .125		2/10/2012	2/8/2012	100.0000	\$1.25	0.0000	0	\$124.65
	No		6061-T6 Bar .750 x f .125		100.0000	DES102		\$124.65	0.0000	0	
			120603								
	3		M6061T6B1.000X02. f 000		2/10/2012	2/8/2012	48.0000	\$4.79	0.0000	0	\$229.75
	No		6061-T6 Bar 1.00 x f 2.00		48.0000	DES102		\$229.75	0.0000	0	
			120603								
	4		M6061T6B1.000X04. f 000		2/10/2012	2/8/2012	24.0000	\$9.39	0.0000	0	\$225.45
	No		6061-T6 Bar 1.00 x f 4.00		24.0000	DES102		\$225.45	0.0000	0	
			120603								
	5		M6061T6R0.625 f 6061-T6 Round Bar f .625"		2/10/2012	2/8/2012	60.0000	\$0.92	0.0000	0	\$55.05
	No		120603		60.0000	DES102		\$55.05	0.0000	0	
			6061-T6 Round Bar f .750"		2/10/2012	2/8/2012	48.0000	\$1.19	0.0000	0	\$56.96
	6		M6061T6R0.750 f 6061-T6 Round Bar f .750"		2/10/2012	2/8/2012	48.0000	\$56.96	0.0000	0	
	No		120603		48.0000	DES102		\$56.96	0.0000	0	
			M5052H32S 063 sf 5052-H32 .063 Sheet sf		2/10/2012	2/8/2012	64.0000	\$1.82	0.0000	0	\$116.66
	7		120603		64.0000	DES102		\$116.66	0.0000	0	
	No		120603								

B I L L O F L A D I N G

No: PEC 751580

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW
Probill
Via VIM TRRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-416097- 1 Your PO # 16088
STAINLESS STEEL ROUND BAR 303 STAINLESS
.750" DIA X 144.0000"

Heat Number
BLW4

Tag No
34416

Quantity
108 FT

PCS
9

Wt LBS
164

MTR

2) Our Order PEC-416097- 2 Your PO # 16088
STAINLESS STEEL ROUND BAR 303 STAINLESS
1.00" DIA X 144.0000"

Heat Number
24809

Tag No
34464

Quantity
12 FT

PCS
1

Wt LBS
32

MTR

3) Our Order PEC-416097- 3 Your PO # 16088
ALUMINUM FLAT BAR 6061-T6511
.375" x 1.00" X 144.0000"

Heat Number
HK067 780

Tag No
34417

Quantity
12 FT

PCS
1

Wt LBS
5

MTR

4) Our Order PEC-416097- 4 Your PO # 16088
ALUMINUM FLAT BAR 6061-T6511
.625" x 2.50" X 144.0000"

Heat Number
201115216

Tag No
34418

Quantity
12 FT

PCS
1

Wt LBS
22

MTR

5) Our Order PEC-416097- 5 Your PO # 16088
ALUMINUM FLAT BAR 6061-T6511
.750" x 6.00" X 144.0000"

Heat Number
65023 052

Tag No
34419

Quantity
12 FT

PCS
1

Wt LBS
63

MTR

Page: 1Continued

P12/2/8

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G

No: PEC 751580

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW
 Probill
 Via VIM TRRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-416097- 6 Your PO # 16088
 ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

Heat Number
 13642

Tag No
 34457

Quantity
 100 FT

PCS
 5

Wt LBS
 10

MTR

7) Our Order PEC-416097- 7 Your PO # 16088
 ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

Heat Number
 HK104 130

Tag No
 34420

Quantity
 48 FT

PCS
 4

Wt LBS
 113

MTR

8) Our Order PEC-416097- 8 Your PO # 16088
 ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number
 15208

Tag No
 34421

Quantity
 24 FT

PCS
 2

Wt LBS
 111

MTR

9) Our Order PEC-416097- 9 Your PO # 16088
 ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

Heat Number
 36657 107

Tag No
 34422

Quantity
 60 FT

PCS
 5

Wt LBS
 22

MTR

10) Our Order PEC-416097- 10 Your PO # 16088
 ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

Heat Number
 P0.750026

Tag No
 500901

Quantity
 48 FT

PCS
 4

Wt LBS
 26

MTR

11) Our Order PEC-416097- 11 Your PO # 16088
 ALUMINUM SHEET 5052-H32

.0640 Nom X 48.0000" X 96.0000"

Heat Number

Tag No

Quantity

PCS

Wt LBS

MTR

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

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RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
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REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

751580-12022001 T0001 TRS/CST TVH/HST # 140220034 RT0001

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recev Date/ Emp	Recev Qty (PO U/M)	Cost Per Unit/ Recev Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ Reject Qty	Book Amt
Vendor ID \ Vendor Name V-C-COP001 Thyssenkrupp Materials CA Ltd											
PO16088	9		M303R0.750	f	2/10/2012	2/8/2012	108.0000	\$3.89	0.0000	0	\$420.02
CAD	No		303 Round Bar 0.750 f		108.0000	DESI02		\$420.02	0.0000	0	
			120603								
	10		M303R1.000	f	2/10/2012	2/8/2012	12.0000	\$6.90	0.0000	0	\$82.81
	No		303 Round Bar 1.00 f		12.0000	DESI02		\$82.81	0.0000	0	
			120603								
	12		M6061T6B0.375X01. f		2/10/2012	2/8/2012	12.0000	\$2.08	0.0000	0	\$24.93
	No		6061T6 BAR .375 x f		12.0000	DESI02		\$24.93	0.0000	0	
			1.00								
			120603								
	13		M6061T6B0.625X02. f		2/10/2012	2/8/2012	12.0000	\$3.65	0.0000	0	\$43.80
	No		500								
			6061-T6 Bar .625 x f		12.0000	DESI02		\$43.80	0.0000	0	
			2.50								
			120603								

Total Received Quantity: 500.0000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$1,505.73
 Total Balance Due Quantity: 0.0000

B I L L O F L A D I N G

No: PEC 751580

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW
Probill
Via VIM TRRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G
B2F4557 34486

64.00 SFT 2

58

TOTAL: Tags 11 PCS 35 LBS 626

Heat Number

*** Chemical Analysis ***

13642
15208
201115216
24809
36657 107
65023 052
B1W4
B2F4557
HK067 780
HK104 130
P0.750026

01/12/18

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 3 BDLs, 1 SKID G.W. 724 LBS

ITEMS (1,3,4,5,7,8,9,10) BDL
ITEM (2) BDL
ITEM (6) BDL
ITEM (11) SKID

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA

Page: 3Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

B I L L O F L A D I N G

No: PEC 751580

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW
Probill
Via VIM TRRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

*** 9:00 AM TO 4:00 PM ***

CONCORD, ONT.*

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.***

Page: 4 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

THYSSENKRUPP MATERIALS NA

P.O./Rel 16088

DART AEROSPACE
STAINLESS STEEL ROUND BAR 303 STAINLESS
.750" DIA X 144.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PBC-751580-001
7Feb12
Pg 1/1



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 702461 9

Customer: 007206 001

Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 1/16/2012 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: PEC235015

NAS Order: PN 0016898 06

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A484/06
AMS 5640V TYPE 1, QQS-764B CONDITION A

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAAS EU DIRECTIVE 2002.95.
EC, ROHS, EAF+MOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity code
BE3177 9		.7500		1.082	144.00	B	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	CM	C	CO	CR	CU	MN	MO	N	NI	P
BE3177 9	US	.0438	.0780	17.2770	.2320	1.7980	.2580	.0490	8.5200	.0260
	S		SI							
		.3305		.4790						

MECHANICAL PROPERTIES

Product Id	1 d	HB	.2YS	UTS	RA	Elong
	o 1	Mo.	KSI	KSI	%	% 4D
BE3177 9	R L	208.00	72.15	104.48	56.39	49.18

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC WESS

1/16/2012

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS
1.00" DIA X 144.0000"
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-002

7Feb12

Signed by: _____

Pg 1/1

This MTR contains 1 page (Page# 1)

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

MTR#: VJRB93238710.61F

Customer: COPCON PO#: PEC-236458 SO#: PL8384

Item: RB030100 Bundle: VJC5154636 Heat#: 24809

Item: RB030100 Bundle: VJC5154637 Heat#: 24809

VIRAJ PROFILES LTD.

VIRAJ

Reg. & Mkt off: G-33 & 34, MIDC, Industrial Area, Tarapur, Thane (Dist), Maharashtra, INDIA - 401506, E-Mail: sales@viraj.com
Works: SURVEY No- 114, 119 & 120, VILL. Mahagaon, Tal: Palgarh, Dist Thane-401501, MAHARASTRA, INDIA, vielqa@viraj.com

TEST CERTIFICATE

CUSTOMER

TA CHEN INTERNATIONAL, INC. L-B
5855 OBISPO AVENUE, LONG BEACH,
CA 90805.

ORDER NO

L33350

PACKING LIST NO

51/932387/10

INSPECTION NO

100001376614

DATE

23.11.2011

HEAT No

24809

BUNDLE NO:

5154634, 5154635, 5154636, 5154637, 5154638, 5154639, 5154640.

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
1"	ROUND	ASTM A484	12 - 13	312	6,906.000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0470	1.920	0.430	0.0000	0.0290	17.460	8.050	0.110	0.080	0.050	0.03250

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
78.0	103.0	40.0	61.0	201.0	7.0

SPECIFICATION:

MATERIAL CONFIRMS TO ASTM A31-95B COND A, A 312-05 COND A, A 484-10, AMS 5640U TYPE I, EXCEPT MARKING, QQ-S-764B COND A, EXCEPT MARKING, UNS-S-30000, CERTIFIED AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, 5 OAKING TIME 1hr/min. WATER QUENCHED. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. MELT SOURCE: AOD. MELT & MANUFACTURED: INDIA

We hereby certify that the material described above has been tested and complies with the terms of order/s contract.

WORKS INSPECTOR
K R K MURTHY

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
.375" x 1.00" X 144.0000"
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-003

7Feb12

Pg 1/1

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
14020 S. COIL PLUS DR UNIT 100
PLAINFIELD, IL 60544

CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-231374-5		CUSTOMER PART NUMBER: 019884-6		PRODUCT DESCRIPTION: .375 X 1.000 SC RECT BAR	
KAISER ORDER NUMBER: 9085852	LINE ITEM: 005	SHIP DATE: 07/11/2011	KAISER LOT NUMBER: HK067 780	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 192.000 PCS	B/L NUMBER: 966945	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF RAOD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF RAOD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
XTR104883	03C1	0001	48.1	42.6	21.3	RE 96	N/A	N/A
XTR104883	03C1	0002	47.0	41.8	20.7	RE 95	N/A	N/A
XTR104883	03C1	0003	48.2	42.8	20.7	RE 95	N/A	N/A
XTR104883	03C1	0004	47.8	42.2	21.3	RE 96	N/A	N/A
XTR104883	03C1	0005	48.1	42.6	21.7	RE 96	N/A	N/A
XTR104883	03C1	0006	48.0	42.2	21.8	RE 96	N/A	N/A
XTR104883	03C1	0007	47.4	42.0	20.8	RE 96	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA		

Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (LOS ANGELES, CA) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Tom G. Small, Jr., QA Manager

Tom G. Small, Jr.

Plant Serial: 00348343

Kaiser Order Number: 9085852

Page 1 of 1

Line Item: 005

Signed by:

THYSSENKRUPP MATERIALS NA
DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
625" x 2.50" x 144,0000"
PART NO.

PO/Rel 16088
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**

OUR ORDER NUMBER	ITEM
136245	2

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	141871	RB0107	10/7/2011	ASTM-B221-08 StencilContinuous
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
ThyssenKrupp Materials NA PEC	PEC-233418	6061-T6511	David Schroeder	AMS-QQA-200/8
Quantity Certified	882 lbs	40 pcs	CUSTOMER PART NUMBER	DESCRIPTION
			RB0107	SCRB 625x2.500

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201115216	10/01/11	49.3	46.4	15.0
2	201115216	10/01/11	48.7	45.7	15.0
3	201115216	10/01/11	48.4	45.4	16.0
4	201115216	10/01/11	49.6	45.6	15.7
5	201115216	10/01/11	48.2	44.8	14.5

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Total	Others	Melted In
C07H0657	6061	0.67	0.25	0.32	0.10	0.88	0.09	0.01	0.01	0.05	0.15		
C07H0658	6061	0.71	0.30	0.34	0.09	0.89	0.09	0.01	0.01	0.05	0.15		

Print Date: 10/7/2011

Calvin J. Wiggins, Director of Quality & Technical Services

United States of America

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.750" x 6.00" X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-751580-005

7Feb12

Pg 1/1

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-236091-5		CUSTOMER PART NUMBER: ALREC00274		PRODUCT DESCRIPTION: .750 X 6.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 611473	LINE ITEM: 005	SHIP DATE: 01/18/2012	KAISER LOT NUMBER: 65023 052	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 16.000 PCS	S/L NUMBER: 602403	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
65023 052	0001	0001	46.9	41.9	21.3	RE 94	N/A	N/A
65023 052	0001	0002	47.4	42.9	21.1	RE 95	N/A	N/A
65023 052	0001	0003	47.6	43.1	19.8	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A32150	.71	.30	.23	.07	.94	.10	.02	.02	.00	.00	.00	.00	.01

Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QC-A-200/8 UNS#6061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Alex Yeh

Plant Serial: 00025643
Kaiser Order Number: 611473
Line Item: 005

THYSSENKRUPP MATERIALS NA

PO/Rel 16088

Certificate of Mill Test Results

DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
1.25" x .750" x 240.0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____

BL PEC-751580-006

7Feb12
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST REPORT

BILL TO THYSSENKRUPP MATERIALS NA	1773	Cert Code: 1	0.65	DIE NUMBER S	4642	DATE OF SHIPMENT 10/6/2011	EXTRUDEX ORDER NO. 138341 - 1	MANIFEST NO. 254210
SHIP TO THYSSENKRUPP MATERIALS NA	1773	CUSTOMER PO PEC-233209		ALLOY 6061	TEMPER T6511	SALESMAN FORBES DODWELL	MADE IN CANADA	
SO DESCRIPTION 1.25" x .750" FB		CUSTOMER PART NUMBER 1-125-750		PART DESCRIPTION	CERTIFICATION MILL TEST ASTM B221			

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Oct03/11	44.2	39.8	12.30	89.3, 89.7, 89.2	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 13642 6061	0.55	0.22	0.21	0.06	0.84	0.04		0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder 0.00

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-751580-007

7Feb12

Signed by: Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-235584-3		CUSTOMER PART NUMBER: B22/STK		PRODUCT DESCRIPTION 1.000 X 2.000 SC RECT BAR	
KAISER ORDER NUMBER: 609864	LINE ITEM: 003	SHIP DATE: 01/09/2012	KAISER LOT NUMBER: HK104 130	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 2032.000 LB	QUANTITY: 72.000 PCS	B/L NUMBER: 602304	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
EK104 130	0001	1	56.8	53.5	15.5	RE 95	N/A	N/A
EK104 130	0001	2	54.0	50.3	15.6	RE 95	N/A	N/A
EK104 130	0001	3	52.2	47.8	12.5	RE 92	N/A	N/A
EK104 130	0001	4	52.8	47.7	12.8	RE 92	N/A	N/A
EK104 130	0001	5	52.7	47.9	12.3	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.30	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H41320	.69	.43	.28	.08	.89	.11	.09	.02	.01	.01	.00	.05	.11

Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Alex Yeh

Plant Serial: 00023766

Kaiser Order Number: 609864

Line Item: 003

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" x 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-751580-008

7Feb12

Signed by: _____ Pg 1/1

CAN ART

ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: 238205

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Ticket:
5226042

Our Order: **846040 - 2**

Cust P.O.: 234827

Die: LS05885

Part: 05885-000-144

Alloy Temper: 6061 T6511

Description: 1.000 x 4.000

Print Date: 12/2/11

Chemical Composition Range

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
6061										
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

<u>Sample</u> <u>ID</u>	<u>Cast #</u>	<u>Lot #</u>	<u>Test</u> <u>Date</u>	<u>Ultimate</u> <u>Tensile</u>	<u>Yield</u> <u>2% offset</u>	<u>Elongation</u> <u>2" gage length</u>
21429	15208	A11	11/29/11	43.11	39.22	17.5

Applicable Specifications: ASTM B221-08 QQA200/8

Country of Origin: 428 Jutras Dr, Windsor, Ontario, CANADA N8N 5C5

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized: _____


Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-009

7Feb12

Pg 1/2

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Best in Class

CUSTOMER PO NUMBER: PEC-236186-2		CUSTOMER PART NUMBER: ALRD00391		PRODUCT DESCRIPTION: .625 ROD +/- .005	
KAISER ORDER NUMBER: 611778	LINE ITEM: 002	SHIP DATE: 01/20/2012	KAISER LOT NUMBER: 36657 107	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1004.000 LB	QUANTITY: 232.000 PCS	B/L NUMBER: 602416	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
36657 107	0001	0001	46.3	42.7	21.1	RE 96	N/A	N/A
36657 107	0001	0002	46.8	42.7	22.0	RE 96	N/A	N/A
36657 107	0001	0003	46.5	39.9	19.6	RE 96	N/A	N/A
36657 107	0001	0004	46.7	40.3	19.9	RE 96	N/A	N/A
36657 107	0001	0005	45.5	40.9	20.5	RE 96	N/A	N/A
36657 107	0001	0006	47.5	43.1	21.3	RE 96	N/A	N/A
36657 107	0001	0007	46.8	39.3	21.3	RE 96	N/A	N/A
36657 107	0001	0008	45.7	41.4	20.5	RE 94	N/A	N/A
36657 107	0001	0009	45.6	40.4	22.3	RE 95	N/A	N/A
36657 107	0001	0010	45.6	40.4	22.3	RE 95	N/A	N/A
36657 107	0001	0011	46.5	39.4	21.7	RE 95	N/A	N/A
36657 107	0001	0012	46.9	43.3	20.0	RE 97	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A31935	.73	.32	.25	.05	.93	.10	.02	.02	.00	.01	.00	.00	.01

Applicable Requirements:

ASTM-B221-08 ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

Plant Serial: 00025737

Kaiser Order Number: 611778

Line Item: 002

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-009

7Feb12

Signed by: _____ Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Alex Yeh

Plant Serial: 00025737

Kaiser Order Number: 611778

Line Item: 002

Page 2 of 2

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.750" DIA X 144.0000"
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-010

7Feb12

Pg 1/2

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-232331-6		CUSTOMER PART NUMBER: 015238-9		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD .750 +/- .004	
KAISER ORDER NUMBER: 601377	LINE ITEM: 006	SHIP DATE: 09/09/2011	KAISER LOT NUMBER: P0.750026	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1515.000 LB	QUANTITY: 243.000 PCS	B/L NUMBER: 601380	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
XTR000279	CC01	0001	49.0	46.3	17.5	RE 96	N/A	N/A
XTR000279	0001	0002	49.4	46.3	14.3	RE 99	N/A	N/A
XTR000279	0001	0003	57.0	53.0	15.0	RE 95	N/A	N/A
XTR000279	0001	0004	56.2	53.5	14.1	RE 98	N/A	N/A
XTR000279	0001	0005	54.5	51.0	15.5	RE 98	N/A	N/A
XTR000279	0001	0006	54.9	50.0	17.7	RE 98	N/A	N/A
XTR000279	0001	0007	56.0	53.3	14.9	RE 98	N/A	N/A
XTR000279	0001	0008	55.2	49.0	13.5	RE 98	N/A	N/A
XTR000279	0001	0009	56.0	47.3	14.9	RE 97	N/A	N/A
XTR000279	0001	0010	55.7	49.5	15.6	RE 97	N/A	N/A
XTR000279	0001	0011	55.5	51.7	15.4	RE 97	N/A	N/A
XTR000279	0001	0012	57.3	53.5	16.3	RE 96	N/A	N/A
XTR000279	0001	0013	54.7	49.1	14.8	RE 96	N/A	N/A
XTR000279	0001	0014	53.9	48.7	14.4	RE 96	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A31472	.78	.28	.28	.10	.93	.08	.04	.02	.00	.01	.00	.01	.01

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Alex Yeh

Plant Serial: 00006696

Kaiser Order Number: 601377

Page 1 of 2

Line Item: 006

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-751580-010

7Feb12

Signed by: _____

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 UNS#6061 MEETS
ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

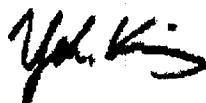
Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager



Plant Serial: 00006696

Kaiser Order Number: 601377

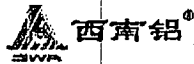
Page 2 of 2

Line Item: 006

DART AEROSPACE
ALUMINUM SHEET 5052-H32
.0640 Nom X 48.0000" X 96.0000"
PART NO.

PO/Rel 16088
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-751580-011 7Feb12
Signed by: Pg 1/1



产品质量证明书 PRODUCT QUALITY CERTIFICATE



图号: 00222301136003123
Serial No:

订货单位 Customer		GALAX INC.										
合同号 Contract No		140019819 SWA11-0171-0520-01		产品名称 Product		软态金博板		批号 Lot No		B2F4557		
合金状态 Alloy And Temper		5052H32		规格(mm) Dimension		1.630 * 1219 * 2439 0.064 * 48 * 96		箱数 Box Count		2		
技术标准 Technique Standard				Q/B1280-2000				片数 Quantity		185.000		
化学成分标准 Chemical Composition Standard				GB/T3190-1998				重量(kg) Weight		2,344.000		
机械性能 Mechanical Property												
状态 Temper	取样方法 Sampling Method	抗拉强度(MPa) Tensile Strength		屈服强度(MPa) Yield Strength		延伸率(%) Elongation						
		标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value					
H32	纵向	215-285	245-250	≥160	104-200	≥7	14.5-21					
弯曲 Curve		探伤 Ultrasonic										
化学成分 Chemical Composition												
熔炼号 Melt No	元素 Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al	
2309236	标准值 Standard Value	≤0.25	≤0.40	≤0.10	≤0.10	2.50-2.80	0.15-0.25	—	≤0.10	—	余量	
	实测值 Actual Value	0.06	0.34	0.01	0.06	3.64	0.30	—	0.01	—	Remainder	
表面质量 Surface Control		合格				铝含量(ml/100gAl)		标准值 Standard Value		—		
几何尺寸 Dimension Control		合格				Hydrogen Content		实测值 Actual Value		—		
备注 Note		MATERIAL CONFORMS TO ASTM B209 AND AMS-Q99A-330 STANDARDS IN ALL RESPECTS										

质量、环境、职业健康安全分别通过ISO9001、ISO14001、GB/T28001管理体系认证，本产品的铝、汞、磷、六价铬的含量均符合欧盟ROHS指令2005/618/EC的要求，≤1000PPm。
Quality, Environment and Occupational Health and Safety Management System have Certified as per ISO9001, ISO14001 and GB/T28001. Content of Plumbum, Hydrogenyrum, Cadmius and sexavalent chroce conforms to ROHS 2005/618/EC, arsenic is less than 1000PPm.
检查员: YY-DENJHUA
Inspector

日期: 2011-04-05
Date
西南铝业(集团)有限责任公司
SOUTHWEST ALUMINIUM (GROUP) CO., LTD.

刮涂层按 95105615 处理
按 8008109315 查询真伪
SWA2100606114410



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO16088**

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 1 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6B0.750X06.000 003	6061T6 BAR .750 X 6.00	2/10/12 Yes	✓ 12.00 f	Yours ppd f	\$10.5000	\$126.00
		Special Inst:	MATERIAL:6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221				
2	M6061T6B00750X00.125 003	6061-T6 Bar .750 x .125	2/10/12 Yes	✓ 100.00 f	Yours ppd f	\$1.2500	\$125.00
		Special Inst:	SAME AS ABOVE				
3	M6061T6B1.000X02.000 004	6061-T6 Bar 1.00 x 2.00	2/10/12 Yes	✓ 48.00 f	Yours ppd f	\$4.8000	\$230.40
		Special Inst:	SAME AS ABOVE				

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr:

2

Change Date: 2/06/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO16088**

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 2 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275.POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

4	M6061T6B1.000X04.000 004	6061-T6 Bar 1.00 x 4.00	2/10/12 Yes	24.00 f	Yours ppd	\$9.4200	\$226.08
		Special Inst:	SAME AS ABOVE				
5	M6061T6R0.625 012	6061-T6 Round Bar .625"	2/10/12 Yes	60.00 f	Yours ppd	\$0.9200	\$55.20
		Special Inst:	MATERIAL:6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221				
6	M6061T6R0.750	6061-T6 Round Bar .750"	2/10/12 Yes	48.00 f	Yours ppd	\$1.1900	\$57.12
		Special Inst:	SAME AS ABOVE				
7	M5052H32S.063 022	5052-H32 .063 Sheet	2/10/12 Yes	64.00 sf	Yours ppd	\$1.8280	\$116.99
		Special Inst:	MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209				

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Change Nbr: 2

Change Date: 2/06/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO16088

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 3 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

9	M303R0.750 028	303 Round Bar 0.750	2/10/12 Yes	✓ 108.00 f <i>Papadakis</i>	Yours ppd	\$3.9000	\$421.20	9
		Special Inst:	MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE					
10	M303R1.000 028	303 Round Bar 1.00	2/10/12 Yes	✓ 12.00 f <i>Papadakis</i>	Yours ppd	\$6.9200	\$83.04	
		Special Inst:	SAME AS ABOVE					
11	M304B0.750X2.500	304 BAR .750 X 2.50	2/10/12 Yes	36.00 f <i>Papadakis</i>	Yours ppd	\$16.5000	\$594.00	
		Special Inst:	MATERIAL: AISI 304/316 BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE					
12	M6061T6B0.375X01.000 002	6061T6 BAR .375 x 1.00	2/10/12 Yes	✓ 12.00 f <i>Papadakis</i>	Yours ppd	\$2.0830	\$25.00	
		Special Inst:	MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					

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Certification required when applicable

Change Nbr: 2

Change Date: 2/06/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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Page Number 4 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name
Vendor Phone 905 669 9444
Vendor Fax 905 738 9033
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

13 M606 T6B0.625X02.500 6061-T6 Bar .625 x 2.50 2/10/12 12.00 Yours ppd \$3.6600 \$43.92
Yes f, *CL 2/6/12*

002

Special Inst: SAME AS ABOVE

PO Total: \$2,103.95

Change Nbr: 2

Change Date: 2/06/12

CL

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consent.
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Certification required when applicable